

# AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 1}, NUM-STEPS=10 #Bins = 150 $4. \times 10^{-28}$ 6×10<sup>15</sup> $3. \times 10^{-28}$ 2.×10<sup>-28</sup> $4 \times 10^{15}$ - 1.×10<sup>-28</sup> 2×10<sup>15</sup> 0 $2 \times 10^{15}$ $4 \times 10^{15}$ $6 \times 10^{15}$

## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 1}, NUM-STEPS=10 #Bins = 235 $2.5 \times 10^{-27}$ 6×10<sup>15</sup> $2.0 \times 10^{-27}$ $1.5 \times 10^{-27}$ $4 \times 10^{15}$ $1.0 \times 10^{-27}$ $5.0 \times 10^{-28}$ 2×10<sup>15</sup> 0 $2 \times 10^{15}$ $4 \times 10^{15}$ $6 \times 10^{15}$

# AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 1}, NUM-STEPS=10 #Bins = 500 6×10<sup>15</sup> 8.×10<sup>-27</sup> 6.×10<sup>-27</sup> 4×10<sup>15</sup> 4.×10<sup>-27</sup> $2. \times 10^{-27}$ 2×10<sup>15</sup> 0

 $4 \times 10^{15}$ 

 $2 \times 10^{15}$ 

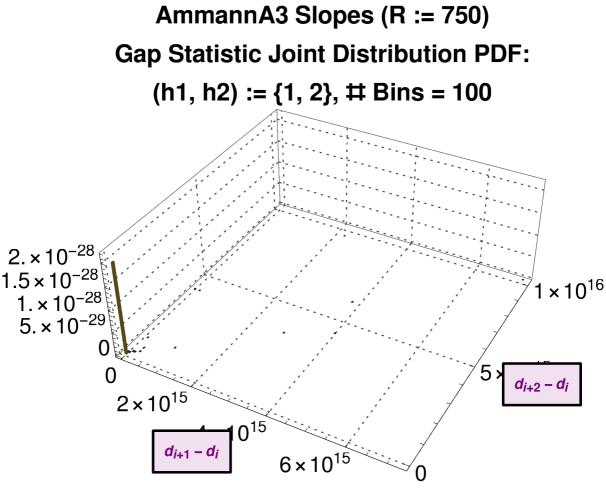
 $6\times10^{15}$ 

# AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 1}, NUM-STEPS=10 #Bins = 50 6×10<sup>15</sup> 8.×10<sup>-29</sup> $6. \times 10^{-29}$ 4×10<sup>15</sup> 4.×10<sup>-29</sup> $2. \times 10^{-29}$ 2×10<sup>15</sup> 0

 $4 \times 10^{15}$ 

 $6 \times 10^{15}$ 

 $2 \times 10^{15}$ 

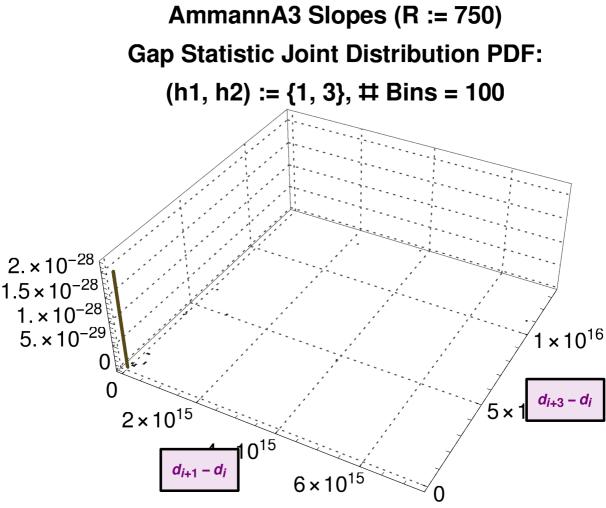


## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 2}, NUM-STEPS=10 #Bins = 150 1×10<sup>16</sup> $4. \times 10^{-28}$ 8×10<sup>15</sup> $3. \times 10^{-28}$ 2.×10<sup>-28</sup> 6×10<sup>15</sup> - 1.×10<sup>-28</sup> $4 \times 10^{15}$ 2×10<sup>15</sup> 0 $4\times10^{15}$ $6\!\times\!10^{15}$ $2 \times 10^{15}$ 0

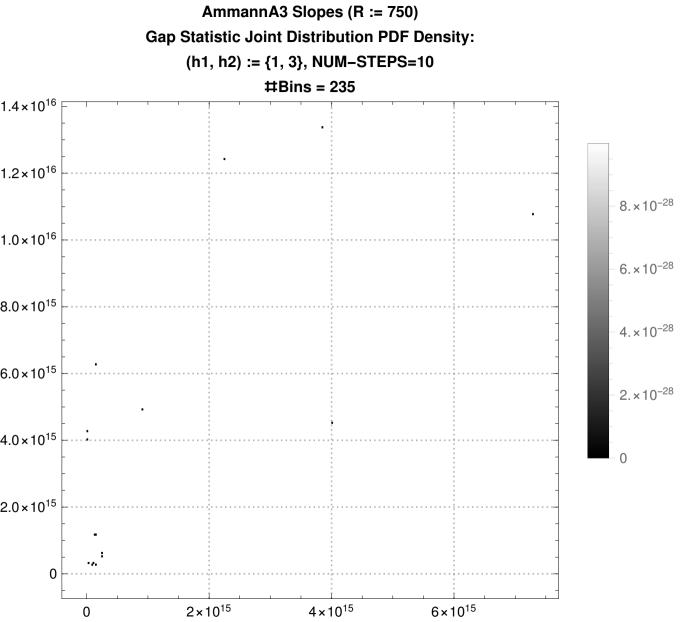
## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 2}, NUM-STEPS=10 #Bins = 235 1×10<sup>16</sup> $8. \times 10^{-28}$ 8×10<sup>15</sup> 6.×10<sup>-28</sup> 6×10<sup>15</sup> 4.×10<sup>-28</sup> $2. \times 10^{-28}$ 4×10<sup>15</sup> 2×10<sup>15</sup> 0 $6\!\times\!10^{15}$ $2 \times 10^{15}$ $4 \times 10^{15}$ 0

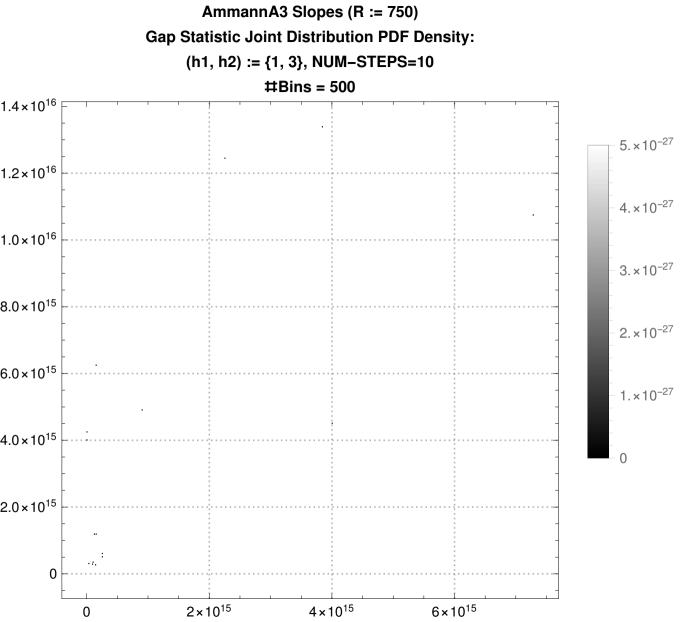
### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 2}, NUM-STEPS=10 #Bins = 500 $1 \times 10^{16}$ $5. \times 10^{-27}$ 4.×10<sup>-27</sup> 8×10<sup>15</sup> 3.×10<sup>-27</sup> 6×10<sup>15</sup> 2.×10<sup>-27</sup> 1.×10<sup>-27</sup> $4 \times 10^{15}$ 2×10<sup>15</sup> 0 $2 \times 10^{15}$ $4 \times 10^{15}$ $6 \times 10^{15}$ 0

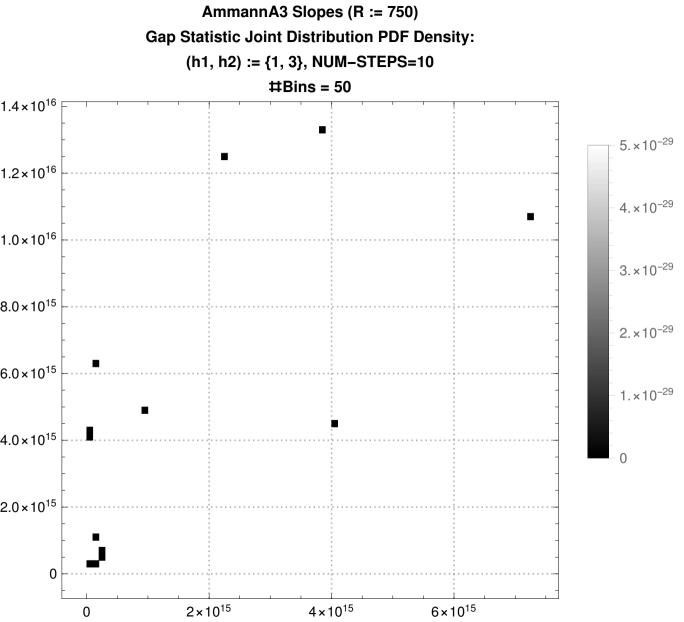
#### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 2}, NUM-STEPS=10 #Bins = 50 1×10<sup>16</sup> $5. \times 10^{-29}$ 4.×10<sup>-29</sup> 8×10<sup>15</sup> 3.×10<sup>-29</sup> 6×10<sup>15</sup> 2.×10<sup>-29</sup> 1.×10<sup>-29</sup> 4×10<sup>15</sup> 2×10<sup>15</sup> 0 $6\!\times\!10^{15}$ $2 \times 10^{15}$ $4 \times 10^{15}$ 0



#### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 3}, NUM-STEPS=10 #Bins = 150 1.4×10<sup>16</sup> F $2.0 \times 10^{-28}$ $1.2 \times 10^{16}$ 1.5×10<sup>-28</sup> 1.0×10<sup>16</sup> 1.0×10<sup>-28</sup> $8.0 \times 10^{15}$ 6.0×10<sup>15</sup> $5.0 \times 10^{-29}$ $4.0 \times 10^{15}$ 2.0×10<sup>15</sup> 0 $2 \times 10^{15}$ $4 \times 10^{15}$ $6 \times 10^{15}$ 0







AmmannA3 Slopes (R := 750)

Gap Statistic Joint Distribution PDF:

(h1, h2) := {1, 4}, 
$$\ddagger$$
 Bins = 100

1.×10<sup>-28</sup>

5.×10<sup>-29</sup>

1.5×10<sup>16</sup>

1.0×10<sup>16</sup>

1.0×10<sup>16</sup>

2×10<sup>15</sup>

3×10<sup>15</sup>

4×10<sup>15</sup>

0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 4}, NUM-STEPS=10 #Bins = 150  $5. \times 10^{-28}$  $1.5 \times 10^{16}$  $4. \times 10^{-28}$ 3.×10<sup>-28</sup>  $1.0 \times 10^{16}$ 2.×10<sup>-28</sup> 1.×10<sup>-28</sup>  $5.0 \times 10^{15}$ 0

 $2 \times 10^{15}$ 

 $3 \times 10^{15}$ 

 $4 \times 10^{15}$ 

 $1\times10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 4}, NUM-STEPS=10 #Bins = 235  $1.5 \times 10^{16}$ 8.×10<sup>-28</sup>  $6. \times 10^{-28}$  $1.0 \times 10^{16}$ 4.×10<sup>-28</sup>  $2. \times 10^{-28}$  $5.0 \times 10^{15}$ 0

 $2 \times 10^{15}$ 

 $3 \times 10^{15}$ 

 $4\times10^{15}$ 

 $1\times10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 4}, NUM-STEPS=10 #Bins = 500  $5. \times 10^{-27}$  $1.5 \times 10^{16}$  $4. \times 10^{-27}$ 3.×10<sup>-27</sup>  $1.0 \times 10^{16}$ 2.×10<sup>-27</sup> 1.×10<sup>-27</sup>  $5.0 \times 10^{15}$ 0

 $2 \times 10^{15}$ 

 $3 \times 10^{15}$ 

 $4\times10^{15}$ 

 $1\times10^{15}$ 

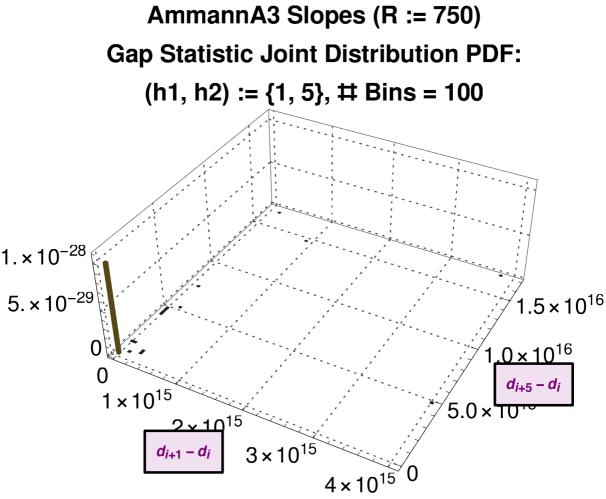
AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 4}, NUM-STEPS=10 #Bins = 50  $5. \times 10^{-29}$ 1.5×10<sup>16</sup>  $4. \times 10^{-29}$ 3.×10<sup>-29</sup>  $1.0 \times 10^{16}$ 2.×10<sup>-29</sup> 1.×10<sup>-29</sup>  $5.0 \times 10^{15}$ 0

 $2\!\times\!10^{15}$ 

 $3\times10^{15}$ 

 $4 \times 10^{15}$ 

 $1 \times 10^{15}$ 



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 $2 \times 10^{15}$ 

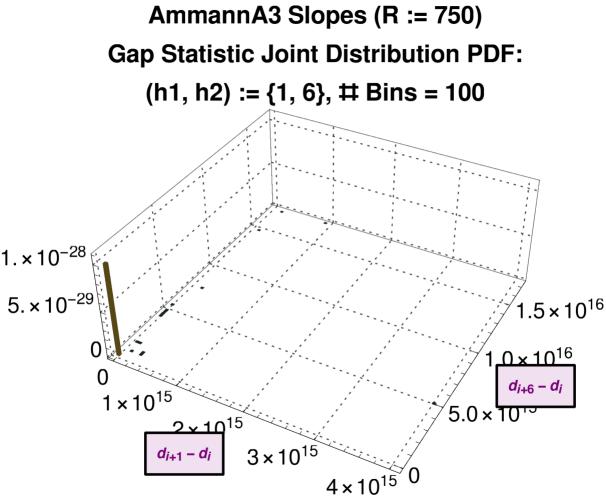
 $3 \times 10^{15}$ 

 $4 \times 10^{15}$ 

 $1\times10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 5}, NUM-STEPS=10 #Bins = 500  $5. \times 10^{-27}$  $1.5 \times 10^{16}$  $4. \times 10^{-27}$ 3.×10<sup>-27</sup> 1.0×10<sup>16</sup> 2.×10<sup>-27</sup> 1.×10<sup>-27</sup> 5.0×10<sup>15</sup> 0  $1\times10^{15}$  $2 \times 10^{15}$  $3 \times 10^{15}$  $4\times10^{15}$ 0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 5}, NUM-STEPS=10 #Bins = 50  $5. \times 10^{-29}$  $1.5 \times 10^{16}$  $4. \times 10^{-29}$ 3.×10<sup>-29</sup>  $1.0 \times 10^{16}$ 2.×10<sup>-29</sup> 1.×10<sup>-29</sup> 5.0×10<sup>15</sup> 0  $1 \times 10^{15}$  $2\!\times\!10^{15}$  $3 \times 10^{15}$  $4 \times 10^{15}$ 0

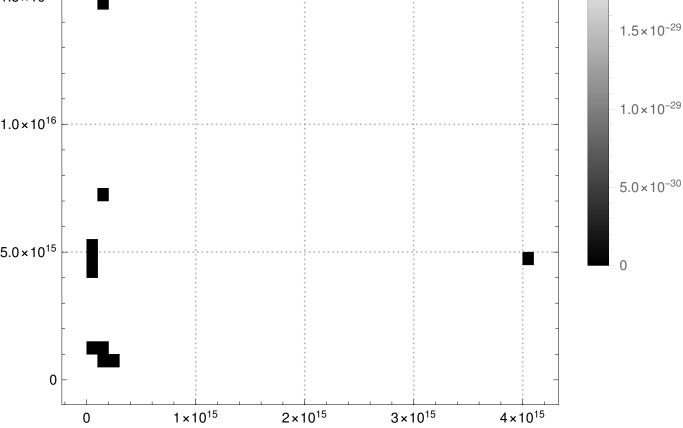


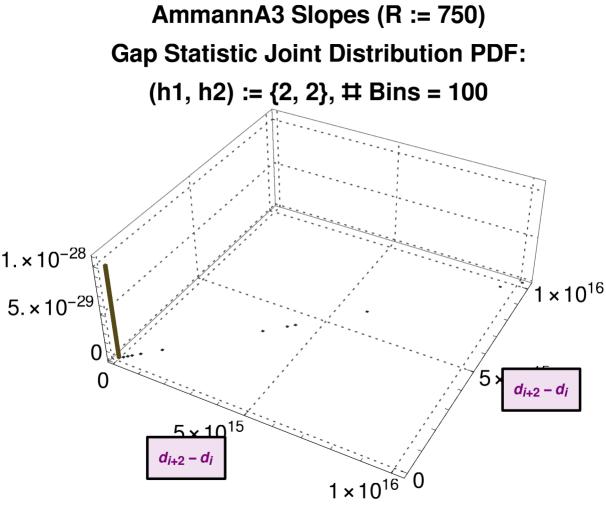
AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 6}, NUM-STEPS=10 #Bins = 150  $5. \times 10^{-28}$ 1.5×10<sup>16</sup>  $4. \times 10^{-28}$ 3.×10<sup>-28</sup> 1.0×10<sup>16</sup> 2.×10<sup>-28</sup> 1.×10<sup>-28</sup>  $5.0 \times 10^{15}$ 0  $1\times10^{15}$  $2 \times 10^{15}$  $3 \times 10^{15}$  $4 \times 10^{15}$ 0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 6}, NUM-STEPS=10 #Bins = 235 1.5×10<sup>16</sup> 8.×10<sup>-28</sup>  $6. \times 10^{-28}$ 1.0×10<sup>16</sup> 4.×10<sup>-28</sup>  $2. \times 10^{-28}$ 5.0×10<sup>15</sup> 0  $1\times10^{15}$  $2 \times 10^{15}$  $3 \times 10^{15}$  $4 \times 10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 6}, NUM-STEPS=10 #Bins = 500  $5. \times 10^{-27}$ 1.5×10<sup>16</sup>  $4. \times 10^{-27}$ 3.×10<sup>-27</sup>  $1.0 \times 10^{16}$ 2.×10<sup>-27</sup> 1.×10<sup>-27</sup> 5.0×10<sup>15</sup> 0  $1\times10^{15}$  $2 \times 10^{15}$  $3 \times 10^{15}$  $4 \times 10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {1, 6}, NUM-STEPS=10 #Bins = 50  $2.0 \times 10^{-29}$ 1.5×10<sup>16</sup>  $1.5 \times 10^{-29}$  $1.0 \times 10^{-29}$  $5.0 \times 10^{-30}$ 





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#### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {2, 2}, NUM-STEPS=10 #Bins = 235 1×10<sup>16</sup> $4. \times 10^{-28}$ 8×10<sup>15</sup> $3. \times 10^{-28}$ $2. \times 10^{-28}$ 6×10<sup>15</sup> - 1.×10<sup>-28</sup> $4 \times 10^{15}$ 2×10<sup>15</sup> 0 $1\times10^{16}$ $2\!\times\!10^{15}$ $4 \times 10^{15}$ $6 \times 10^{15}$ $8 \times 10^{15}$ 0

## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{2, 2\}, NUM-STEPS=10$ #Bins = 500 $1 \times 10^{16}$ $2.5 \times 10^{-27}$ $2.0 \times 10^{-27}$ 8×10<sup>15</sup> $1.5 \times 10^{-27}$ 6×10<sup>15</sup> $1.0 \times 10^{-27}$ $5.0 \times 10^{-28}$ $4 \times 10^{15}$ $2 \times 10^{15}$ 0

 $6 \times 10^{15}$ 

 $8 \times 10^{15}$ 

 $1 \times 10^{16}$ 

 $4\times10^{15}$ 

 $2 \times 10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:**  $(h1, h2) := \{2, 2\}, NUM-STEPS=10$ #Bins = 50  $1 \times 10^{16}$  $2.5 \times 10^{-29}$  $2.0 \times 10^{-29}$ 8×10<sup>15</sup>  $1.5 \times 10^{-29}$ 6×10<sup>15</sup> 1.0×10<sup>-29</sup>  $5.0 \times 10^{-30}$  $4 \times 10^{15}$ 2×10<sup>15</sup>

 $6 \times 10^{15}$ 

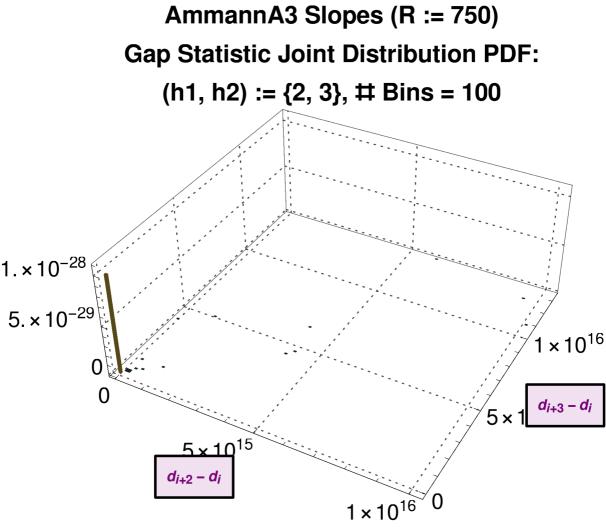
 $8 \times 10^{15}$ 

 $1 \times 10^{16}$ 

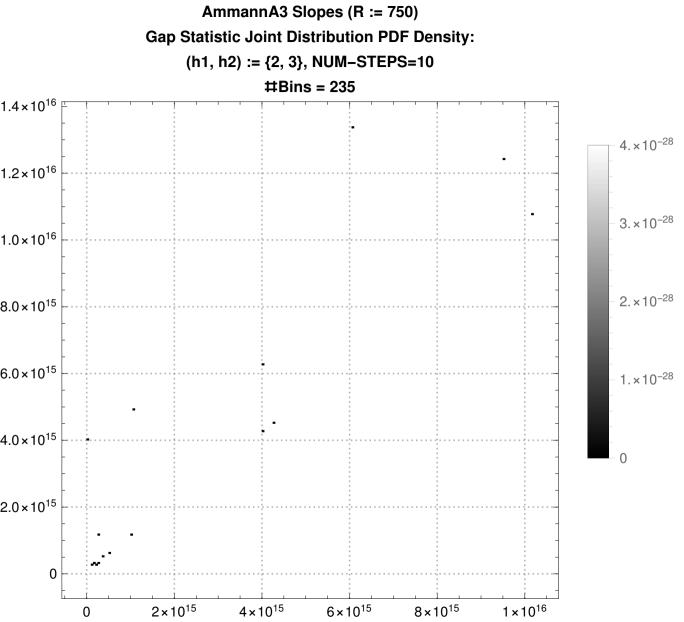
 $4\times10^{15}$ 

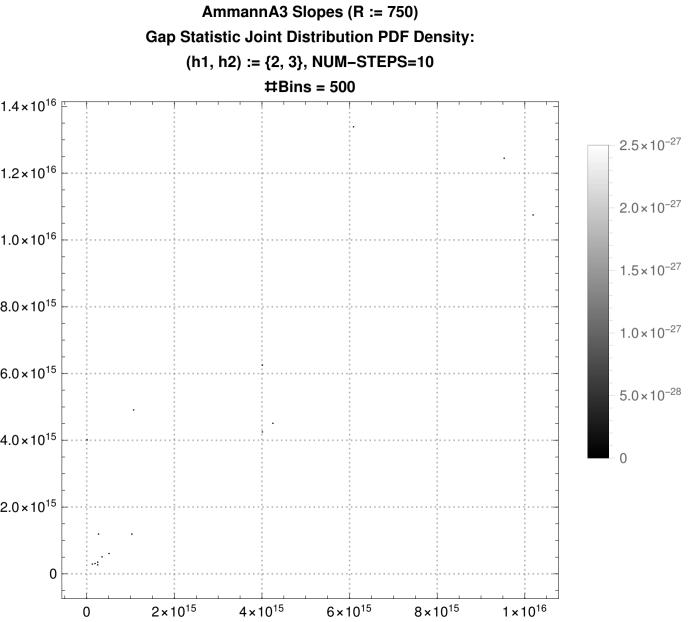
 $2 \times 10^{15}$ 

0

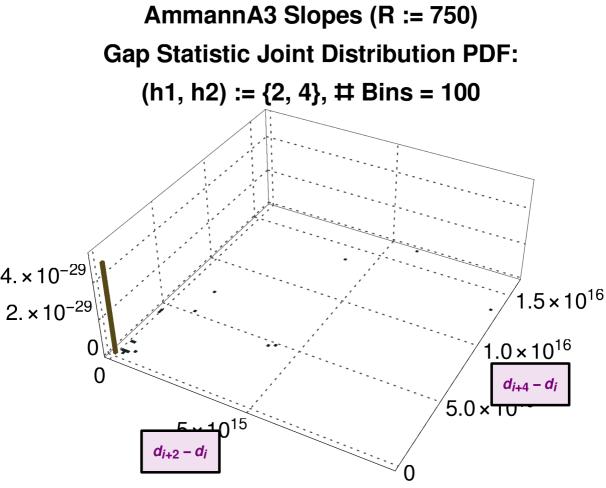


#### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{2, 3\}, NUM-STEPS=10$ #Bins = 150 $2.0 \times 10^{-28}$ 1.2×10<sup>16</sup> 1.5×10<sup>-28</sup> 1.0×10<sup>16</sup> 1.0×10<sup>-28</sup> $8.0 \times 10^{15}$ $6.0 \times 10^{15}$ $5.0 \times 10^{-29}$ $4.0 \times 10^{15}$ 2.0×10<sup>15</sup> 0 $2\!\times\!10^{15}$ $4 \times 10^{15}$ $6 \times 10^{15}$ $8 \times 10^{15}$ $1 \times 10^{16}$ 0





AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:**  $(h1, h2) := \{2, 3\}, NUM-STEPS=10$ #Bins = 50  $2.5 \times 10^{-29}$ 1.2×10<sup>16</sup>  $2.0 \times 10^{-29}$ 1.0×10<sup>16</sup> 1.5×10<sup>-29</sup>  $8.0 \times 10^{15}$  $1.0 \times 10^{-29}$  $6.0 \times 10^{15}$  $5.0 \times 10^{-30}$  $4.0 \times 10^{15}$ 2.0×10<sup>15</sup> 0  $2\!\times\!10^{15}$  $4 \times 10^{15}$  $6 \times 10^{15}$  $8 \times 10^{15}$  $1 \times 10^{16}$ 0



# AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{2, 4\}, NUM-STEPS=10$ #Bins = 150 $2.0 \times 10^{-28}$ 1.5×10<sup>16</sup> $1.5 \times 10^{-28}$ 1.0×10<sup>16</sup> $1.0 \times 10^{-28}$ $5.0 \times 10^{-29}$ 5.0×10<sup>15</sup> 0

 $6 \times 10^{15}$ 

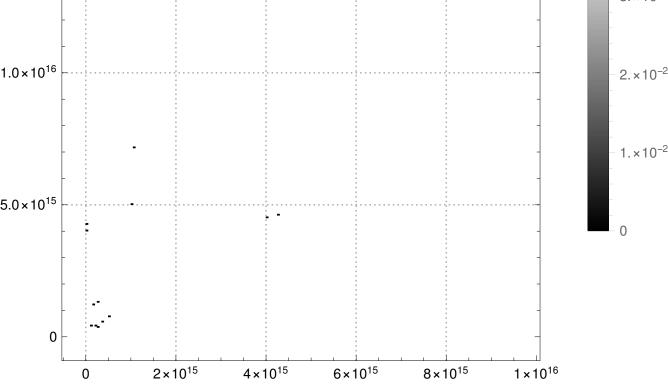
 $8 \times 10^{15}$ 

 $1 \times 10^{16}$ 

 $2\times10^{15}$ 

 $4\times10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {2, 4}, NUM-STEPS=10 #Bins = 235  $4. \times 10^{-28}$ 1.5×10<sup>16</sup>  $3. \times 10^{-28}$ 2.×10<sup>-28</sup> - 1.×10<sup>-28</sup>



AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:**  $(h1, h2) := \{2, 4\}, NUM-STEPS=10$ #Bins = 500  $2.5 \times 10^{-27}$  $1.5 \times 10^{16}$  $2.0 \times 10^{-27}$  $1.5 \times 10^{-27}$  $1.0 \times 10^{16}$  $1.0 \times 10^{-27}$  $5.0 \times 10^{-28}$  $5.0 \times 10^{15}$ 0

 $6 \times 10^{15}$ 

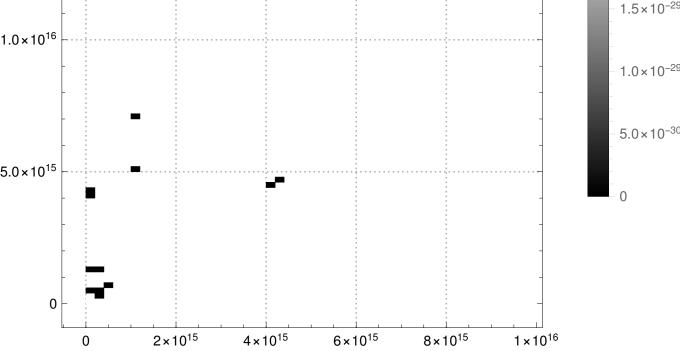
 $8\times10^{15}$ 

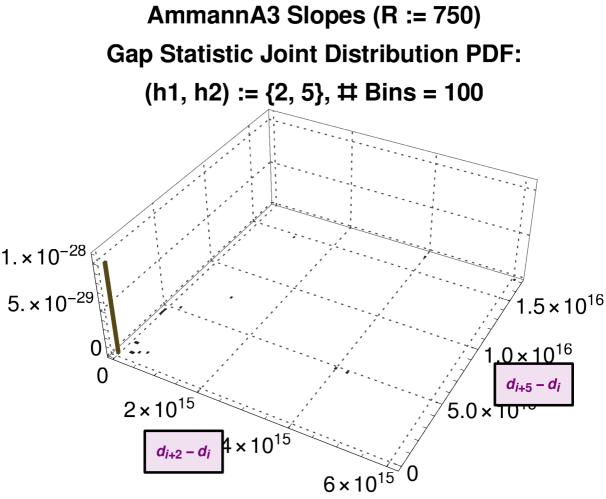
 $1 \times 10^{16}$ 

 $2 \times 10^{15}$ 

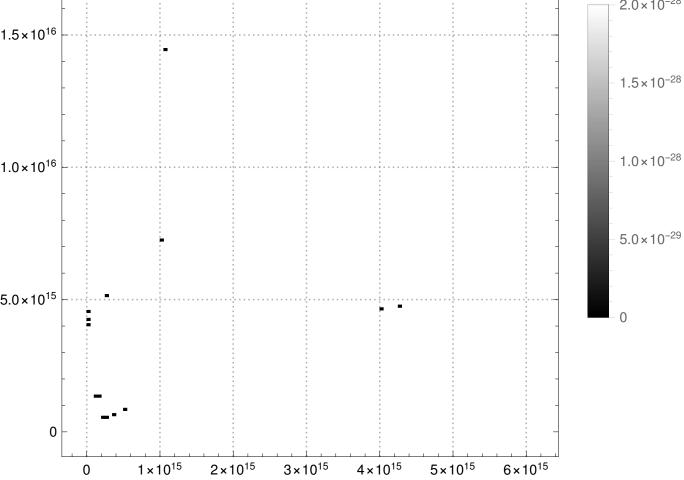
 $4\times10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {2, 4}, NUM-STEPS=10 #Bins = 50  $2.5 \times 10^{-29}$ 1.5×10<sup>16</sup>  $2.0 \times 10^{-29}$  $1.5 \times 10^{-29}$  $1.0 \times 10^{-29}$  $5.0 \times 10^{-30}$ 





AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {2, 5}, NUM-STEPS=10 #Bins = 150  $2.0 \times 10^{-28}$ 



# AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{2, 5\}, NUM-STEPS=10$ #Bins = 235 1.5×10<sup>16</sup> $8. \times 10^{-28}$ 6.×10<sup>-28</sup> 1.0×10<sup>16</sup> $4. \times 10^{-28}$ $2. \times 10^{-28}$ $5.0 \times 10^{15}$ 0

 $1\times10^{15}$ 

0

 $2 \times 10^{15}$ 

 $3 \times 10^{15}$ 

 $4 \times 10^{15}$ 

 $5 \times 10^{15}$ 

 $6 \times 10^{15}$ 

### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{2, 5\}, NUM-STEPS=10$ #Bins = 500 $5. \times 10^{-27}$ $1.5 \times 10^{16}$ $4. \times 10^{-27}$ 3.×10<sup>-27</sup> 1.0×10<sup>16</sup> 2.×10<sup>-27</sup> 1.×10<sup>-27</sup> 5.0×10<sup>15</sup> 0 $1 \times 10^{15}$ $2 \times 10^{15}$ $3 \times 10^{15}$ $4 \times 10^{15}$ $5 \times 10^{15}$ $6 \times 10^{15}$ 0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {2, 5}, NUM-STEPS=10 #Bins = 50  $5. \times 10^{-29}$ 1.5×10<sup>16</sup>  $4. \times 10^{-29}$  $3. \times 10^{-29}$  $1.0 \times 10^{16}$ 2.×10<sup>-29</sup> 1.×10<sup>-29</sup> 5.0×10<sup>15</sup> 0

 $4 \times 10^{15}$ 

 $3 \times 10^{15}$ 

 $5 \times 10^{15}$ 

 $6 \times 10^{15}$ 

 $1 \times 10^{15}$ 

0

 $2 \times 10^{15}$ 

AmmannA3 Slopes (R := 750)

Gap Statistic Joint Distribution PDF:

(h1, h2) := {2, 6}, # Bins = 100

1. 
$$\times$$
 10<sup>-28</sup>

5.  $\times$  10<sup>-29</sup>

1.  $5\times$  10<sup>16</sup>

1.  $10\times$  10<sup>16</sup>

2.  $10^{15}$ 

3.  $10^{15}$ 

3.  $10^{15}$ 

4.  $10^{15}$ 

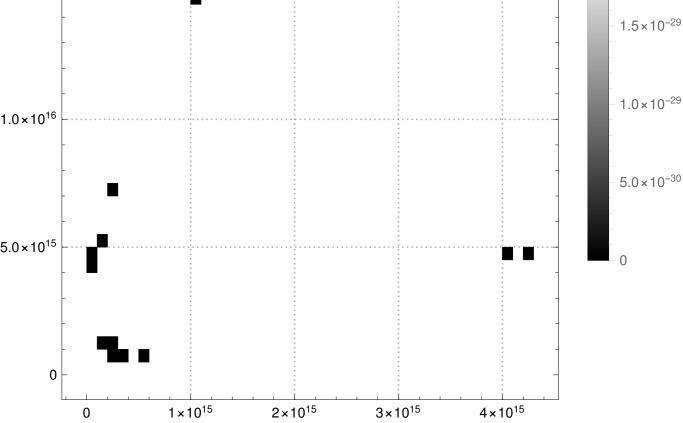
0

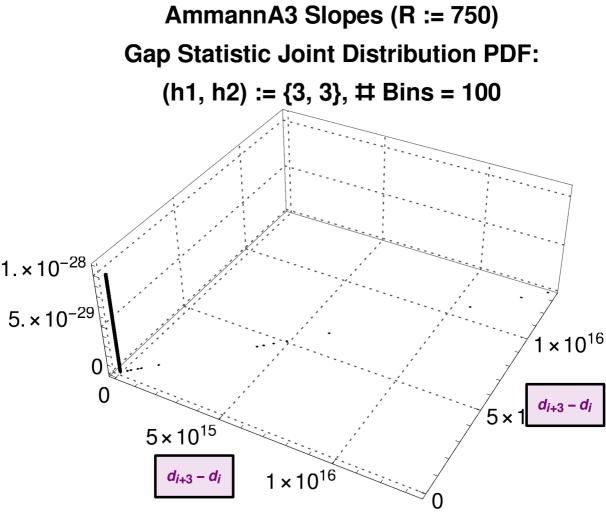
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AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {2, 6}, NUM-STEPS=10 #Bins = 235 1.5×10<sup>16</sup> 8.×10<sup>-28</sup>  $6. \times 10^{-28}$  $1.0 \times 10^{16}$ 4.×10<sup>-28</sup>  $2. \times 10^{-28}$ 5.0×10<sup>15</sup> 0  $1\times10^{15}$  $2 \times 10^{15}$  $3 \times 10^{15}$  $4 \times 10^{15}$ 0

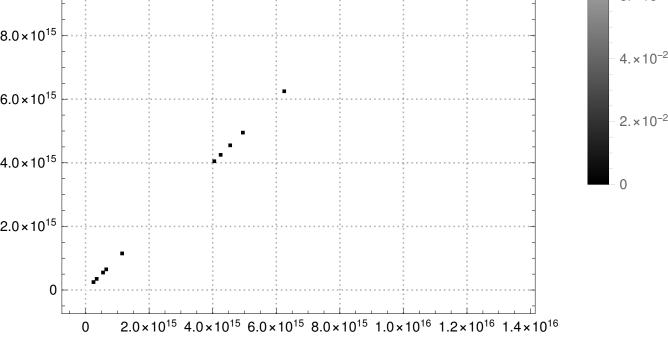
AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {2, 6}, NUM-STEPS=10 #Bins = 500  $5. \times 10^{-27}$ 1.5×10<sup>16</sup>  $4. \times 10^{-27}$ 3.×10<sup>-27</sup> 1.0×10<sup>16</sup> 2.×10<sup>-27</sup> 1.×10<sup>-27</sup> 5.0×10<sup>15</sup> 0  $1\times10^{15}$  $2 \times 10^{15}$  $3 \times 10^{15}$  $4 \times 10^{15}$ 0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {2, 6}, NUM-STEPS=10 #Bins = 50  $2.0 \times 10^{-29}$ 1.5×10<sup>16</sup>  $1.5 \times 10^{-29}$  $1.0 \times 10^{-29}$  $5.0 \times 10^{-30}$ 





## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := {3, 3}, NUM-STEPS=10$ #Bins = 150 1.4×10<sup>16</sup> 1.2×10<sup>16</sup> $8. \times 10^{-29}$ $1.0 \times 10^{16}$ 6.×10<sup>-29</sup> 4.×10<sup>-29</sup> $2. \times 10^{-29}$



## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := {3, 3}, NUM-STEPS=10$ #Bins = 235 1.4×10<sup>16</sup> F $4. \times 10^{-28}$ $1.2 \times 10^{16}$ $3. \times 10^{-28}$ $1.0 \times 10^{16}$ 2.×10<sup>-28</sup> $8.0 \times 10^{15}$ $6.0 \times 10^{15}$ 1.×10<sup>-28</sup> $4.0 \times 10^{15}$ 2.0×10<sup>15</sup> 0

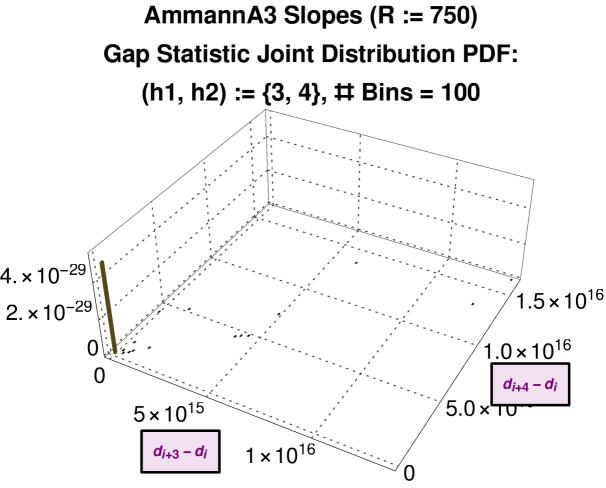
 $2.0 \times 10^{15} \ 4.0 \times 10^{15} \ 6.0 \times 10^{15} \ 8.0 \times 10^{15} \ 1.0 \times 10^{16} \ 1.2 \times 10^{16} \ 1.4 \times 10^{16}$ 

0

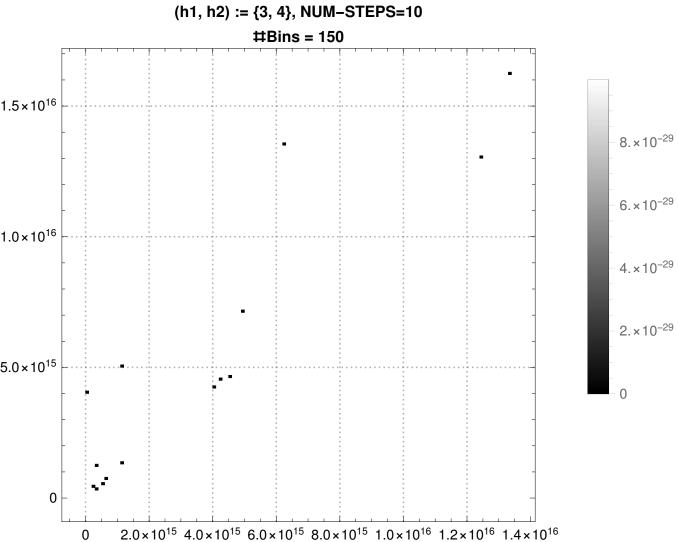
### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := {3, 3}, NUM-STEPS=10$ #Bins = 500 1.4×10<sup>16</sup> F $2.5 \times 10^{-27}$ $1.2 \times 10^{16}$ $2.0 \times 10^{-27}$ $1.0 \times 10^{16}$ $1.5 \times 10^{-27}$ $8.0 \times 10^{15}$ $1.0 \times 10^{-27}$ 6.0×10<sup>15</sup> $5.0 \times 10^{-28}$ $4.0 \times 10^{15}$ $2.0 \times 10^{15}$ 0 $2.0 \times 10^{15} \ 4.0 \times 10^{15} \ 6.0 \times 10^{15} \ 8.0 \times 10^{15} \ 1.0 \times 10^{16} \ 1.2 \times 10^{16} \ 1.4 \times 10^{16}$

### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := {3, 3}, NUM-STEPS=10$ #Bins = 50 1.4×10<sup>16</sup> F $2.5 \times 10^{-29}$ $1.2 \times 10^{16}$ $2.0 \times 10^{-29}$ $1.0 \times 10^{16}$ $1.5 \times 10^{-29}$ $8.0 \times 10^{15}$ $1.0 \times 10^{-29}$ 6.0×10<sup>15</sup> $5.0 \times 10^{-30}$ $4.0 \times 10^{15}$ $2.0 \times 10^{15}$ 0

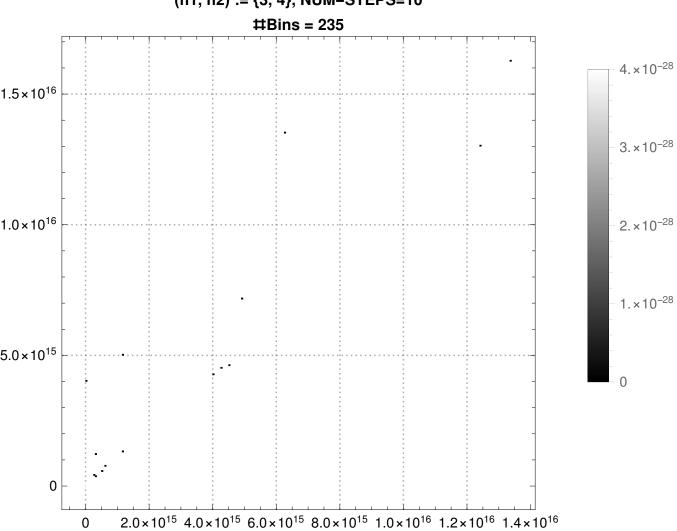
 $2.0 \times 10^{15} \ 4.0 \times 10^{15} \ 6.0 \times 10^{15} \ 8.0 \times 10^{15} \ 1.0 \times 10^{16} \ 1.2 \times 10^{16} \ 1.4 \times 10^{16}$ 



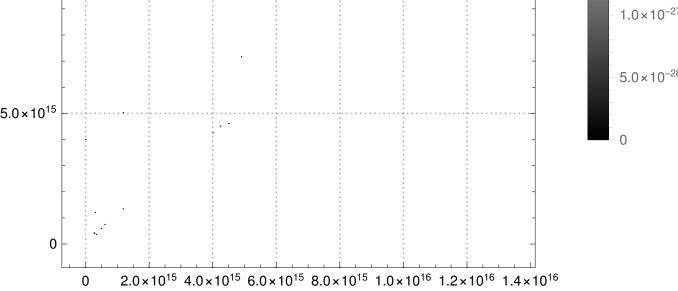
# AmmannA3 Slopes (R := 750) Gap Statistic Joint Distribution PDF Density:



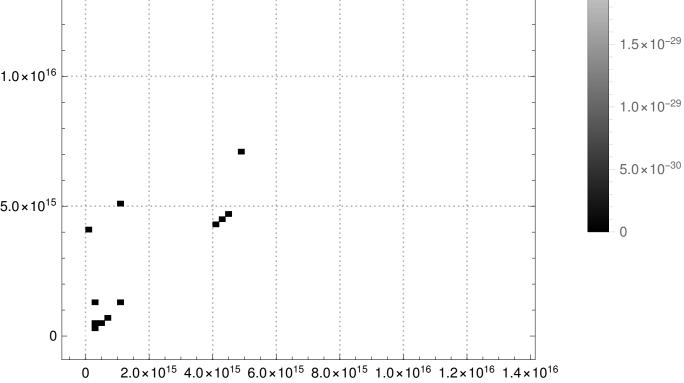
# AmmannA3 Slopes (R := 750) Gap Statistic Joint Distribution PDF Density: (h1, h2) := {3, 4}, NUM-STEPS=10

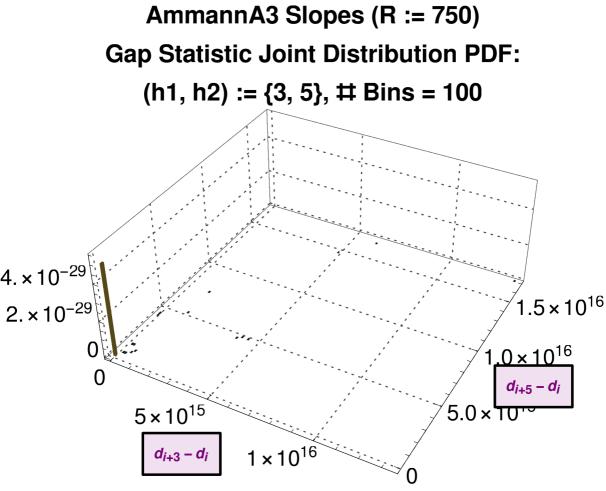


## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{3, 4\}, NUM-STEPS=10$ #Bins = 500 $2.5 \times 10^{-27}$ 1.5×10<sup>16</sup> $2.0 \times 10^{-27}$ $1.5 \times 10^{-27}$ $1.0 \times 10^{16}$ $1.0 \times 10^{-27}$ $5.0 \times 10^{-28}$



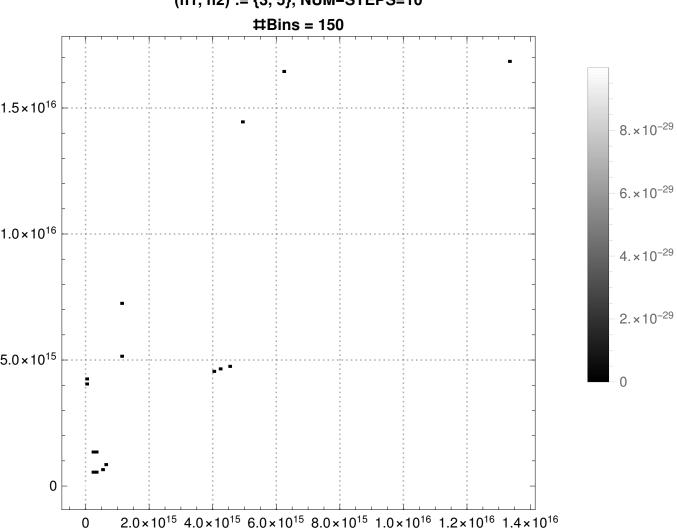
## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{3, 4\}, NUM-STEPS=10$ #Bins = 50 $2.5 \times 10^{-29}$ 1.5×10<sup>16</sup> $2.0 \times 10^{-29}$ $1.5 \times 10^{-29}$ $1.0 \times 10^{-29}$





#### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:**

 $(h1, h2) := \{3, 5\}, NUM-STEPS=10$ 



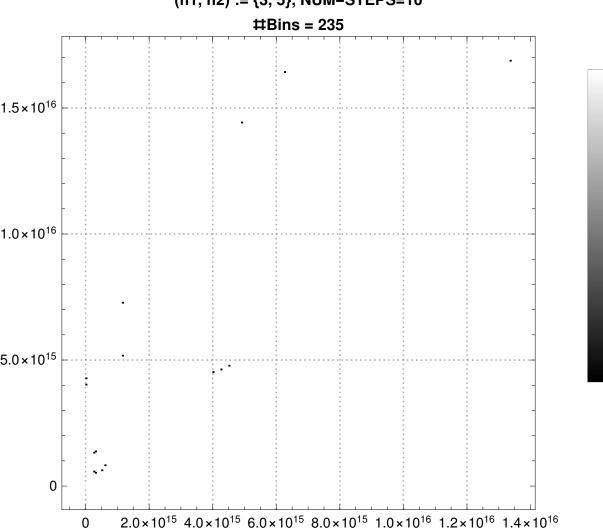
# AmmannA3 Slopes (R := 750) Gap Statistic Joint Distribution PDF Density: (h1, h2) := {3, 5}, NUM-STEPS=10

 $4. \times 10^{-28}$ 

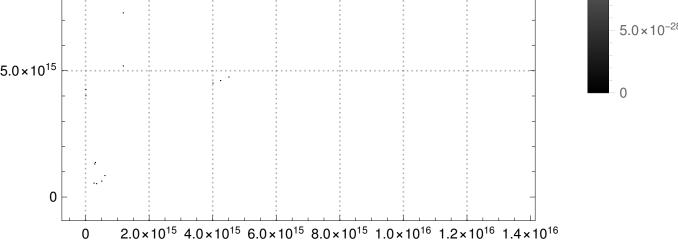
 $3. \times 10^{-28}$ 

2.×10<sup>-28</sup>

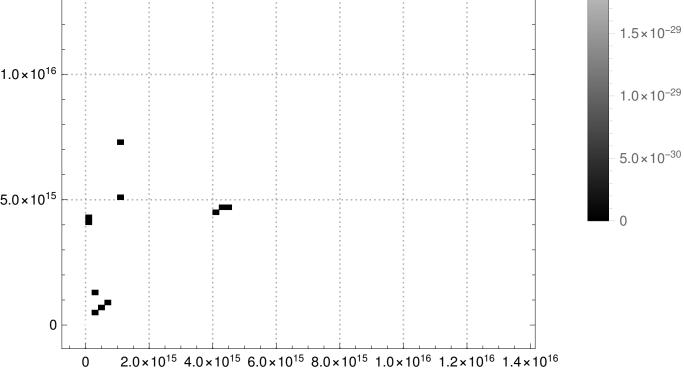
- 1.×10<sup>-28</sup>



## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{3, 5\}, NUM-STEPS=10$ #Bins = 500 $2.5 \times 10^{-27}$ $1.5 \times 10^{16}$ $2.0 \times 10^{-27}$ $1.5 \times 10^{-27}$ $1.0 \times 10^{16}$ $1.0 \times 10^{-27}$ $5.0 \times 10^{-28}$

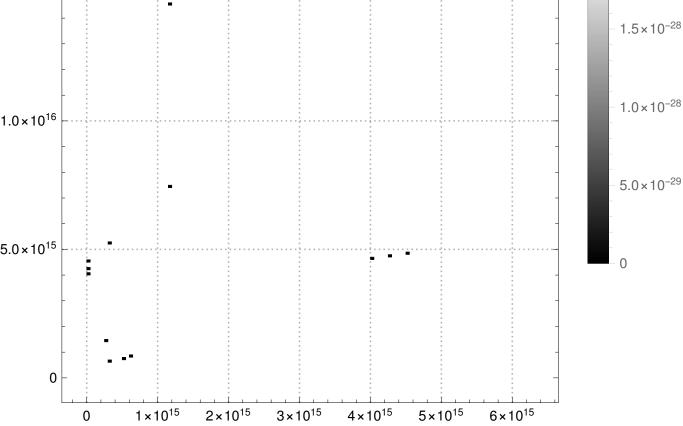


## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{3, 5\}, NUM-STEPS=10$ #Bins = 50 $2.5 \times 10^{-29}$ $1.5 \times 10^{16}$ $2.0 \times 10^{-29}$ $1.5 \times 10^{-29}$ $1.0 \times 10^{-29}$



AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF:**  $(h1, h2) := \{3, 6\}, \# Bins = 100$  $1. \times 10^{-28}$  $5. \times 10^{-29}$  $1.5 \times 10^{16}$  $0 \times 10^{16}$  $d_{i+6} - d_i$  $2\times10^{15}$ 5.0×10 |×10<sup>15</sup>  $d_{i+3} - d_i$  $6 \times 10^{15}$ 

# AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := {3, 6}, NUM-STEPS=10$ #Bins = 150 $2.0 \times 10^{-28}$ 1.5×10<sup>16</sup> 1.5×10<sup>-28</sup> $1.0 \times 10^{-28}$ $5.0 \times 10^{-29}$



AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:**  $(h1, h2) := {3, 6}, NUM-STEPS=10$ #Bins = 235 1.5×10<sup>16</sup>  $8. \times 10^{-28}$ 6.×10<sup>-28</sup>  $1.0 \times 10^{16}$ 4.×10<sup>-28</sup>  $2. \times 10^{-28}$ 5.0×10<sup>15</sup> 0

 $2 \times 10^{15}$ 

 $1 \times 10^{15}$ 

0

 $3 \times 10^{15}$ 

 $4 \times 10^{15}$ 

 $5 \times 10^{15}$ 

 $6 \times 10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:**  $(h1, h2) := {3, 6}, NUM-STEPS=10$ #Bins = 500  $5. \times 10^{-27}$ 1.5×10<sup>16</sup>  $4. \times 10^{-27}$ 3.×10<sup>-27</sup> 1.0×10<sup>16</sup> 2.×10<sup>-27</sup> 1.×10<sup>-27</sup> 5.0×10<sup>15</sup> 0

 $1 \times 10^{15}$ 

0

 $2 \times 10^{15}$ 

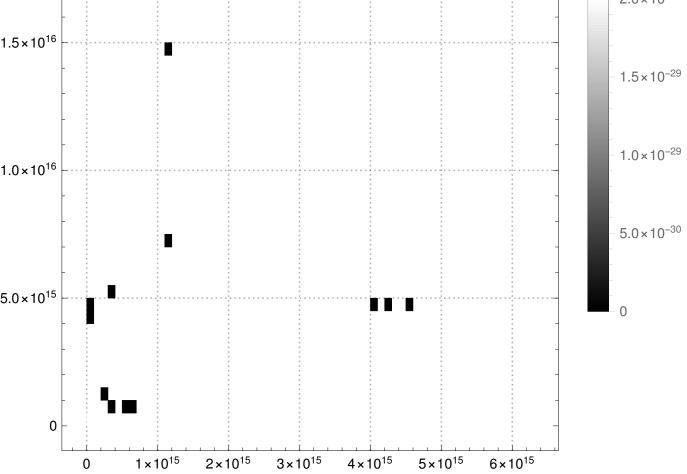
 $3 \times 10^{15}$ 

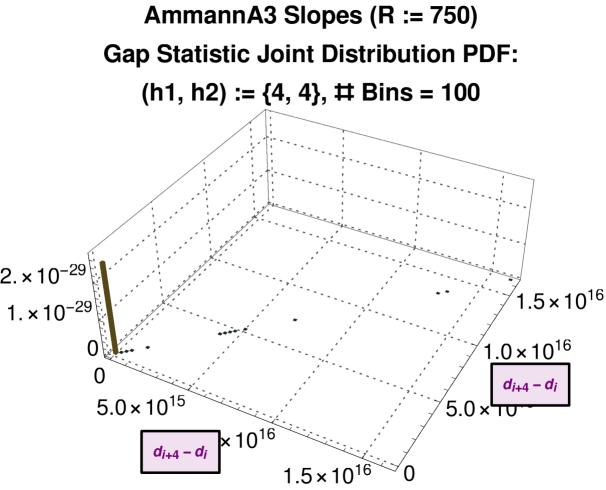
 $4 \times 10^{15}$ 

 $5 \times 10^{15}$ 

 $6 \times 10^{15}$ 

# AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := {3, 6}, NUM-STEPS=10$ #Bins = 50 $2.0 \times 10^{-29}$





AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {4, 4}, NUM-STEPS=10 #Bins = 150  $1.5 \times 10^{16}$ 8.×10<sup>-29</sup>  $6. \times 10^{-29}$  $1.0 \times 10^{16}$ 4.×10<sup>-29</sup>  $2. \times 10^{-29}$  $5.0 \times 10^{15}$ 0  $5.0\times10^{15}$  $1.0 \times 10^{16}$  $1.5 \times 10^{16}$ 0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {4, 4}, NUM-STEPS=10 #Bins = 235  $4. \times 10^{-28}$  $1.5 \times 10^{16}$  $3. \times 10^{-28}$  $1.0 \times 10^{16}$ 2.×10<sup>-28</sup> - 1.×10<sup>-28</sup>  $5.0 \times 10^{15}$ 0  $5.0 \times 10^{15}$  $1.0 \times 10^{16}$  $1.5 \times 10^{16}$ 0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {4, 4}, NUM-STEPS=10 #Bins = 500  $2.5 \times 10^{-27}$  $1.5 \times 10^{16}$  $2.0 \times 10^{-27}$  $1.5 \times 10^{-27}$  $1.0 \times 10^{16}$  $1.0 \times 10^{-27}$  $5.0 \times 10^{-28}$  $5.0 \times 10^{15}$ 

 $1.5 \times 10^{16}$ 

0

0

 $5.0\times10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {4, 4}, NUM-STEPS=10 #Bins = 50  $2.5 \times 10^{-29}$ 1.5×10<sup>16</sup>  $2.0 \times 10^{-29}$  $1.5 \times 10^{-29}$ 1.0×10<sup>16</sup> 1.0×10<sup>-29</sup>  $5.0 \times 10^{-30}$  $5.0 \times 10^{15}$ 

 $1.5\times10^{16}$ 

0

0

 $5.0 \times 10^{15}$ 

AmmannA3 Slopes (R := 750)

Gap Statistic Joint Distribution PDF:

(h1, h2) := {4, 5}, 
$$\ddagger$$
 Bins = 100

2. × 10<sup>-29</sup>

1. × 10<sup>-29</sup>

1. 5 × 10<sup>16</sup>

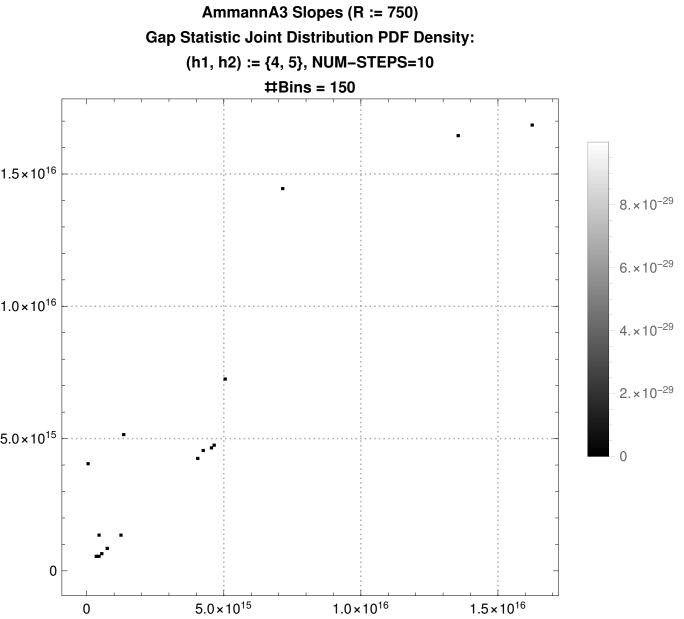
5. 0 × 10<sup>15</sup>
 $d_{i+4} - d_i$  × 10<sup>16</sup>

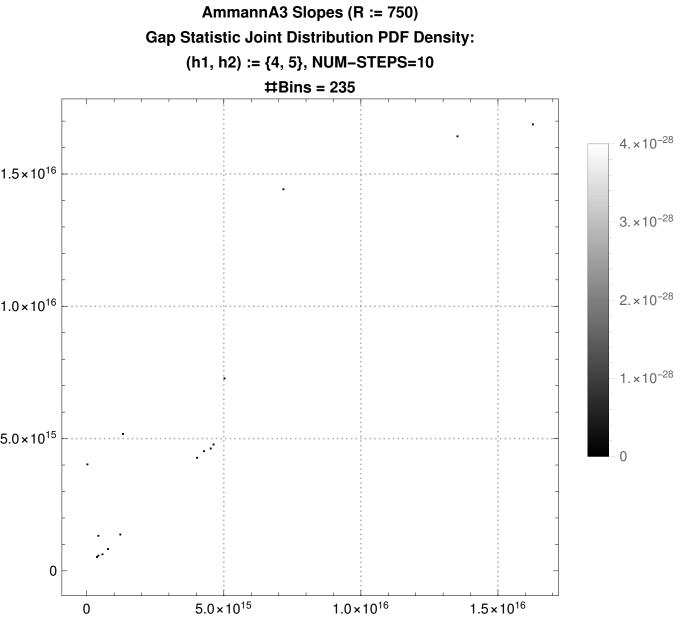
1. 5 × 10<sup>16</sup>

1. 5 × 10<sup>16</sup>

1. 5 × 10<sup>16</sup>

1. 5 × 10<sup>16</sup>





## AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {4, 5}, NUM-STEPS=10 #Bins = 500 $2.5 \times 10^{-27}$ 1.5×10<sup>16</sup> $2.0 \times 10^{-27}$ $1.5 \times 10^{-27}$ 1.0×10<sup>16</sup> $1.0 \times 10^{-27}$ $5.0 \times 10^{-28}$ 5.0×10<sup>15</sup> 0

 $1.0 \times 10^{16}$ 

 $1.5\times10^{16}$ 

 $5.0 \times 10^{15}$ 

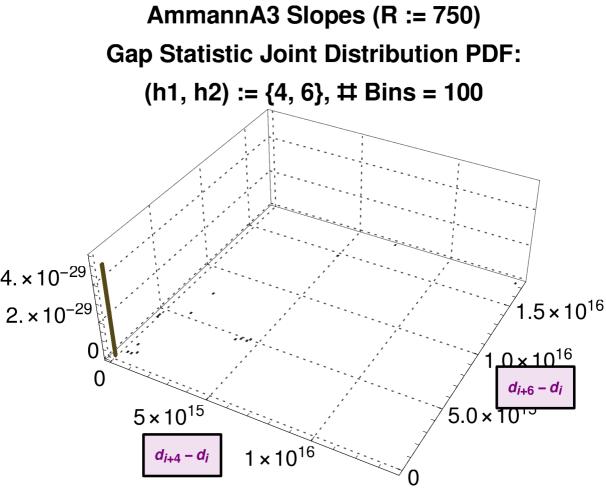
AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {4, 5}, NUM-STEPS=10 #Bins = 50  $2.5 \times 10^{-29}$  $1.5 \times 10^{16}$  $2.0 \times 10^{-29}$  $1.5 \times 10^{-29}$ 1.0×10<sup>16</sup> 1.0×10<sup>-29</sup>  $5.0 \times 10^{-30}$ 5.0×10<sup>15</sup>

 $1.5 \times 10^{16}$ 

0

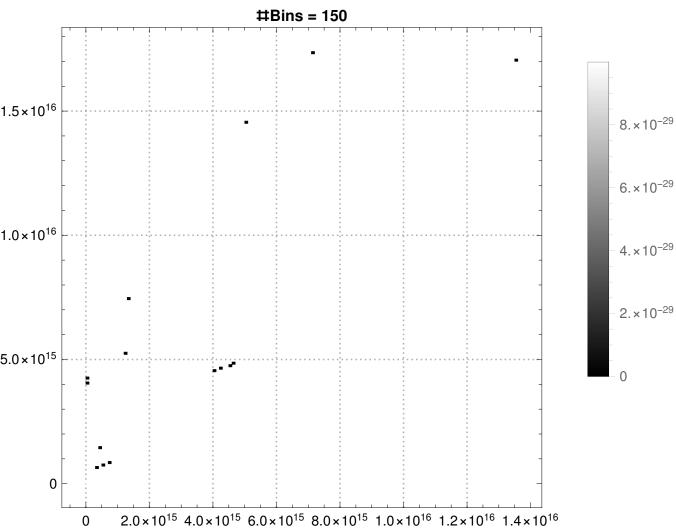
0

 $5.0 \times 10^{15}$ 

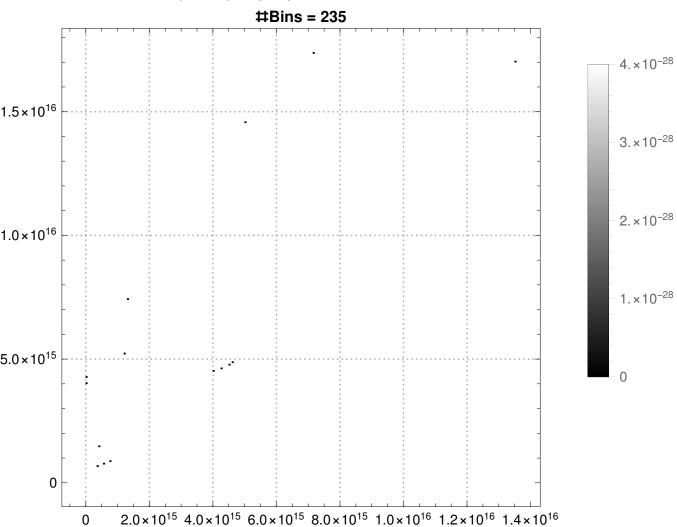


#### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:**

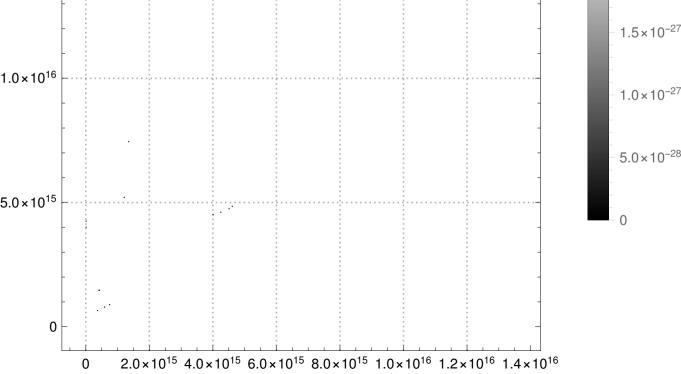
 $(h1, h2) := \{4, 6\}, NUM-STEPS=10$ 



### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{4, 6\}, NUM-STEPS=10$



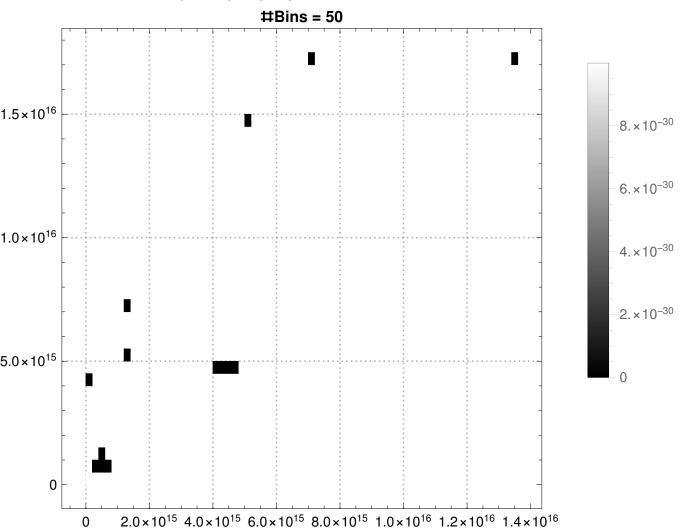
### AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** $(h1, h2) := \{4, 6\}, NUM-STEPS=10$ #Bins = 500 $2.5 \times 10^{-27}$ 1.5×10<sup>16</sup> $2.0 \times 10^{-27}$ $1.5 \times 10^{-27}$ $1.0 \times 10^{-27}$ $5.0 \times 10^{-28}$



### AmmannA3 Slopes (R := 750) Gap Statistic Joint Distribution PDF Density:

#### Gap Statistic Joint Distribution PDF Density:

(h1, h2) := {4, 6}, NUM-STEPS=10



AmmannA3 Slopes (R := 750)

Gap Statistic Joint Distribution PDF:

(h1, h2) := {5, 5}, 
$$\ddagger$$
 Bins = 100

2. ×10<sup>-29</sup>

1. ×10<sup>-29</sup>

1. 5×10<sup>16</sup>

0

5.0×10<sup>15</sup>

1.5×10<sup>16</sup>

1.5×10<sup>16</sup>

1.5×10<sup>16</sup>

1.5×10<sup>16</sup>

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {5, 5}, NUM-STEPS=10 #Bins = 150 1.5×10<sup>16</sup> 8.×10<sup>-29</sup>  $6. \times 10^{-29}$ 1.0×10<sup>16</sup> 4.×10<sup>-29</sup>  $2. \times 10^{-29}$  $5.0 \times 10^{15}$ 0  $5.0 \times 10^{15}$  $1.0 \times 10^{16}$  $1.5 \times 10^{16}$ 0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {5, 5}, NUM-STEPS=10 #Bins = 235  $4. \times 10^{-28}$ 1.5×10<sup>16</sup>  $3. \times 10^{-28}$ 2.×10<sup>-28</sup>  $1.0 \times 10^{16}$ 1.×10<sup>-28</sup>  $5.0 \times 10^{15}$ 0  $5.0 \times 10^{15}$  $1.0 \times 10^{16}$  $1.5 \times 10^{16}$ 0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {5, 5}, NUM-STEPS=10 #Bins = 500  $2.5 \times 10^{-27}$ 1.5×10<sup>16</sup>  $2.0 \times 10^{-27}$  $1.5 \times 10^{-27}$ 1.0×10<sup>16</sup>  $1.0 \times 10^{-27}$  $5.0 \times 10^{-28}$  $5.0 \times 10^{15}$ 0  $5.0 \times 10^{15}$  $1.0\times10^{16}$  $1.5 \times 10^{16}$ 0

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {5, 5}, NUM-STEPS=10 #Bins = 50  $2.5 \times 10^{-29}$  $1.5 \times 10^{16}$  $2.0 \times 10^{-29}$  $1.5 \times 10^{-29}$  $1.0 \times 10^{16}$ 1.0×10<sup>-29</sup>  $5.0 \times 10^{-30}$ 5.0×10<sup>15</sup> 0

 $1.5\!\times\!10^{16}$ 

 $5.0 \times 10^{15}$ 

AmmannA3 Slopes (R := 750)

Gap Statistic Joint Distribution PDF:

(h1, h2) := {5, 6}, 
$$\#$$
 Bins = 100

2. × 10<sup>-29</sup>

1. × 10<sup>-29</sup>

1. 5 × 10<sup>16</sup>

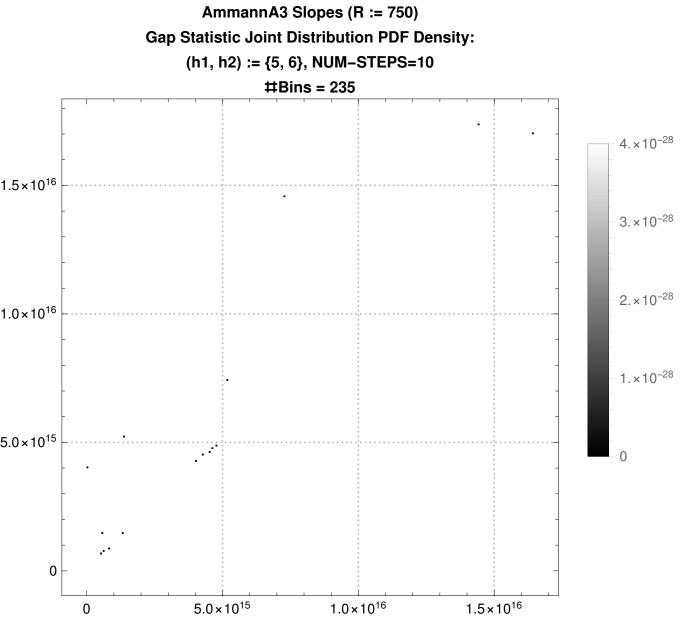
5. 0 × 10<sup>15</sup>
 $d_{i+5} - d_i$  × 10<sup>16</sup>

1. 5 × 10<sup>16</sup>

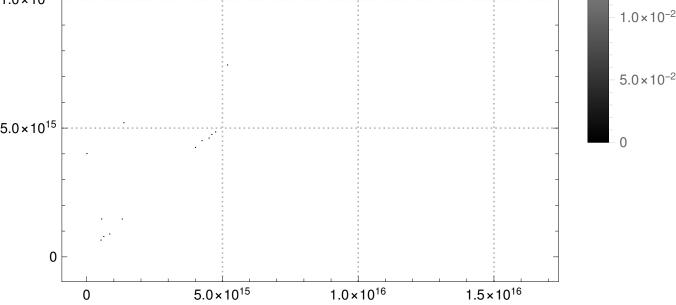
1. 5 × 10<sup>16</sup>

1. 5 × 10<sup>16</sup>

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {5, 6}, NUM-STEPS=10 #Bins = 150 1.5×10<sup>16</sup> 8.×10<sup>-29</sup>  $6. \times 10^{-29}$  $1.0 \times 10^{16}$ 4.×10<sup>-29</sup>  $2. \times 10^{-29}$ 5.0×10<sup>15</sup> 0  $5.0 \times 10^{15}$  $1.0 \times 10^{16}$  $1.5 \times 10^{16}$ 0



# AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {5, 6}, NUM-STEPS=10 #Bins = 500 $2.5 \times 10^{-27}$ 1.5×10<sup>16</sup> $2.0 \times 10^{-27}$ $1.5 \times 10^{-27}$ 1.0×10<sup>16</sup> $1.0 \times 10^{-27}$ $5.0 \times 10^{-28}$



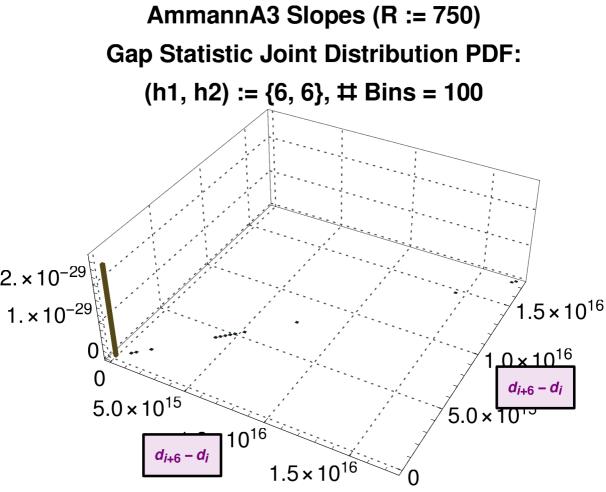
AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {5, 6}, NUM-STEPS=10 #Bins = 50 1.5×10<sup>16</sup> 8.×10<sup>-30</sup> 6.×10<sup>-30</sup> 1.0×10<sup>16</sup> 4.×10<sup>-30</sup>  $2. \times 10^{-30}$ 5.0×10<sup>15</sup>

 $1.5 \times 10^{16}$ 

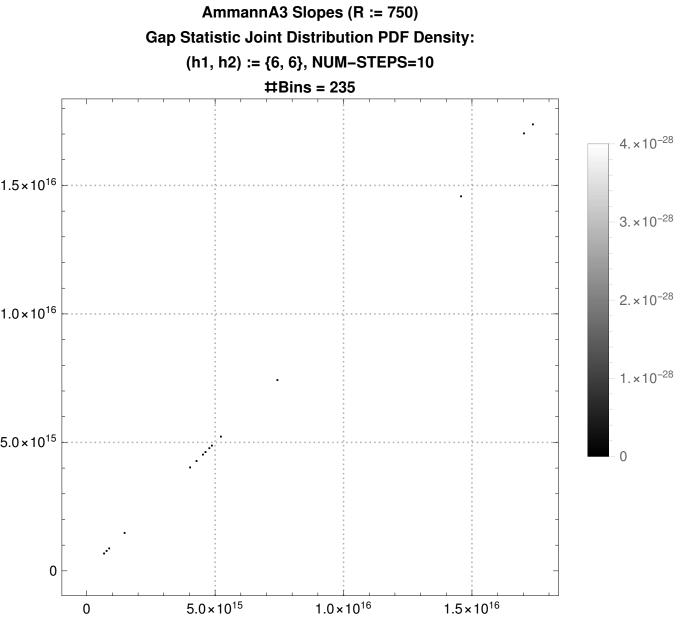
0

0

 $5.0 \times 10^{15}$ 



AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {6, 6}, NUM-STEPS=10 #Bins = 150 1.5×10<sup>16</sup> 8.×10<sup>-29</sup> 6.×10<sup>-29</sup>  $1.0 \times 10^{16}$ 4.×10<sup>-29</sup>  $2. \times 10^{-29}$  $5.0 \times 10^{15}$ 0  $5.0 \times 10^{15}$  $1.0 \times 10^{16}$  $1.5 \times 10^{16}$ 0



AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {6, 6}, NUM-STEPS=10 #Bins = 500  $2.5 \times 10^{-27}$ 1.5×10<sup>16</sup>  $2.0 \times 10^{-27}$  $1.5 \times 10^{-27}$ 1.0×10<sup>16</sup>  $1.0 \times 10^{-27}$  $5.0 \times 10^{-28}$ 5.0×10<sup>15</sup> 0

 $1.5 \times 10^{16}$ 

 $5.0 \times 10^{15}$ 

AmmannA3 Slopes (R := 750) **Gap Statistic Joint Distribution PDF Density:** (h1, h2) := {6, 6}, NUM-STEPS=10 #Bins = 50  $4. \times 10^{-30}$ 1.5×10<sup>16</sup>  $3. \times 10^{-30}$ 2.×10<sup>-30</sup> 1.0×10<sup>16</sup> - 1.×10<sup>-30</sup> 5.0×10<sup>15</sup> 0

 $1.5\times10^{16}$ 

 $5.0 \times 10^{15}$